

# Getting into Modular

## PROCESSORS

[ControlVoltage.net](http://ControlVoltage.net)

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- **Filter** - Reduces Harmonics, Changes phase of waves
- **WaveFolders** - Shape designer Usually adds or folds harmonics
- **VCA** - Voltage Control Amplifiers, or controlling volume with voltage
- **Effects** - Distortion, Phaser, Flanger, Delay, Reverb

In this class we will discuss ways of using Filters, Wavefolders, VCAs, and Effects all through the eyes of the modular synthesizer. What is the advantage to using the modular? What are voltages? Why do you need control voltages? How do you make sounds more tailored to your own taste?

Hopefully we will cover some ideas on how to use these tools with the voltages inside of the modular synthesizer.

### Filter

- Low Pass - Lets low frequency pass
- Band Pass - Lets a small band of frequency pass
- High Pass - Lets high frequency pass
- Notch - Removes a selection of frequency from the listener

### WaveFolder

- Typically works well with sine (but can be used with anything)
- Will seem to fold the look of the wave
- Has multiple modulation places for manipulating the wave
- Can sometimes remind you of distortion

### VCA

- Voltage Control Amplifier
- Controls the amplitude of the wave
- If modulated at Audio Rate it becomes AM or Amplitude Modulation
- Is the heart and soul of how the modular makes, and contains sounds
- Goes hand in hand with Envelope

### Effects

- Amplitude Based
- Modulation Based
- Time Based

You can use effects in any order you want but for the most predictable results try using the order above.

### Amplitude

- EQ
- Compressor
- Filter
- Bit Reduction
- Distortion

## Modulation

- Phaser
- Flanger
- Chorus
- Ring Modulator

## Time Based

- Delay
- Reverb

Processors are the most known and probably make first time users have the most fun. From the first experience with the Moog filter, to comparing Arp and filters, so many of the processors have distinct characteristics. From Big Sky, to Japanese Boss, to anything that makes a waveform sound different, effects stand out.

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